Procedure for an Analysis of Wastewater Management Alternatives

A VPDES permit application submitted to DEQ that falls under the aquaculture requirements will include an analysis of alternatives that consists of the components listed below for the proposed VPDES discharge as well as other wastewater management alternatives. The procedure is undertaken in two phases: **Phase 1 - Feasibility plus Environment & Phase 2 - Impacts Assessment**. If an alternative is not considered feasible after Phase 1, that alternative does not need to undergo the Phase 2 impacts assessment.

Phase 1- Feasibility Plus Environment AND Phase 2 - Impacts Assessment

Socio-economic impacts Technology Assessment Environmental and Related Project specific impacts Mitigation Costs of land requirement; installation costs • Land availability and Annual O/M and permit affordability suitability for -- Environmental Distribution and storage expenses technology Water Quality Standards Costs of any potential mitigation measures Technology design and Groundwater protection engineering site Shellfish condemnation **Locality specific impacts (benefits)** assessment report Change in tax revenue due to land needed for Shellfish resource -- Mitigation alternative treatment option central/regional treatment presence (existing Net change in sewer rates per capita aquaculture, commercial facilities. Change in employment (and tax revenue) due to or recreational SAV/ oyster beds, proposed development shellfishing present) Vegetative buffers / Assessment of beneficial uses unsuitable for surface easements Loss of shellfish resource (now and future) discharge Value of potentially lost beneficial uses (tourism, Other VDPES permit habitat, recreation, aesthetics, etc) related technological • Costs of mitigation - Costs central/regional data treatment options; buffers; oyster/clam beds